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10/712,544

11/13/2003

Scott Carrier

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EXAMINER

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SUITE 3020

BOCA RATON, FL 33487

ART UNIT

PAPER NUMBER

2176

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/712,544

Applicant(s)

CARRIER, SCOTT

Examiner

Michael K. Botts

Art Unit

2176

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 August 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 30, 2006 has been entered.
2. This is a Non-Final Office Action.
3. Claims 1-15 have been examined, with claims 1, 6, 8, and 11 being the independent claims.
4. Claims 1-15 are objected to.
5. Claims 1-15 are rejected.

The Specification

6. Applicant is reminded of the continuing requirement to update the status (pending, allowed, etc.) of all parent priority applications in the first line of the specification, when appropriate, and the status of all citations of U.S. filed applications in the specification should also be updated, when appropriate.

7. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The following terms are not defined in the specification"

- a) "field validation pattern;"
- b) "disposed in said markup;"
- c) "validation shell function;"
- d) "pattern validation routine;" and
- e) "pervasive device."

If the Applicant believes these terms are defined in the specification, the Applicant should cite to specific paragraph and line numbers establishing those definitions.

Claims Objections

8. **Claims 1-15** are objected to because of the following informalities:

a) The claims specify the term "markup" which is a non-standard term and is not found to be specially defined in the specification. Upon review of the claims and specification, the Examiner believes the Applicant intended the term to mean "markup language program" and the term will be so read for the remainder of this Office Action.

b) The term "validation script library" is defined in the specification by reference only, which is read by the Examiner, based on a review of the claims and specification, as a client side input validator, and will be so read for the remainder of this Office Action.

Appropriate correction is required.

Claims Rejections – 35 U.S.C. 112, First Paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

9. **Claims 1-15** are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

a) The term “field validation pattern” is not defined in the specification. The closest term is “pattern validation” which refers to the inspection of user input to ensure that the input conforms to a particular pattern, such as date formats, time formats, telephone number formats, etc. See, disclosure, paragraph [0003]. Upon examination of the claims and the specification, it is the Examiner’s belief that Applicant intended the term “field validation pattern” to refer to “pattern validation” within the entry field of a form for purposes of checking input format for dates, time, telephone numbers, etc., and the term will be so read for the remainder of this Office Action.

b) The term “disposed in said markup” is not defined in the specification. It is the belief of the Examiner, based on a review of the claims and specification, that the

Applicant intended the term to mean that the invention used a markup computer language, and the term will be so read for the remainder of this Office Action.

c) The term "validation shell function" is not defined in the specification. The term "shell," as used in the software arts, was known to one of ordinary skill in the art as "a program that interprets sequences of text input as commands." See, "IEEE 100, The Authoritative Dictionary of IEEE Standards Terms," Seventh Edition, IEEE Press, 2000, definition of "shell." Accordingly, based on a review of the claims and specification, the term "validation shell function" is read as a user interface to enter the data into the form, which is read as inherent in a form filling and validation program, and the phrase will be so read for the remainder of this Office Action.

d) The term "pattern validation routine" is not defined in the specification. Upon examination of the claims and the specification, it is the Examiner's belief that the Applicant intended the term to be the comparison of input with valid input patterns within the validation routine, and will be so read for the remainder of this Office Action.

e) The term "pervasive device" is not defined in the specification. The Examiner consulted "IEEE 100, The Authoritative Dictionary of IEEE Standards Terms," Seventh Edition, IEEE Press, 2000, and "Microsoft Computer Dictionary," fifth edition, Microsoft Press, 2002, and the term was not found. The Examiner believes the term to have been intended by the Applicant to mean that the device is permanent, such as a

permanent client device. See, Claim 15. See also, "American Heritage College Dictionary, fourth edition, Houghton Mifflin Co., 2002, definition of "pervasive." The term will be so defined for the remainder of this Office Action. It is noted that the term "pervasive" as applied to a client device, is read as non-functional descriptive language. It was known to one of ordinary skill in the art at the time of the invention that any device connected to a server as a client is permanent while connected to the server. Upon disconnection, the device is no longer a client device, it is merely a stand-alone device. Therefore, the term "pervasive" is read as non-functional descriptive language that does not constitute a patentable distinction over the prior art.

f) The term "validation script library" is defined in the specification by its use only, which is read by the Examiner, based on a review of the claims and specification, as a client side input validator, and will be so read for the remainder of this Office Action.

10. In addition, **Claim 15** is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention, and is therefore new matter. The term "pervasive device" is not defined in the specification. The Examiner consulted "IEEE 100, The Authoritative Dictionary of IEEE Standards Terms," Seventh Edition, IEEE Press, 2000, and "Microsoft Computer Dictionary," fifth edition, Microsoft Press, 2002,

and the term was not found. The Examiner believes the term to have been intended by the Applicant to mean that the device is permanent, such as a permanent client device. See, Claim 15. See also, "American Heritage College Dictionary, fourth edition, Houghton Mifflin Co., 2002, definition of "pervasive." The term will be so defined for the remainder of this Office Action.

11. In the interest of compact prosecution, the application is further examined against the prior art, as stated below, upon the assumption that the applicants may overcome the above stated rejection under 35 U.S.C. 112, first paragraph.

Claims Rejections – 35 U.S.C. 112, Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

12. **Claims 1-15** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, the claims are deficient in failing to particularly point out and distinctly claim the subject matter related to the following terms:

a) The term "field validation pattern" is not defined in the specification. The closest term is "pattern validation" which refers to the inspection of user input to ensure that the input conforms to a particular pattern, such as date formats, time formats, telephone number formats, etc. See, disclosure, paragraph [0003]. Upon examination

of the claims and the specification, it is the Examiner's belief that Applicant intended the term "filed validation pattern" to refer to "pattern validation" within the entry field of a form for purposes of checking input format for dates, time, telephone numbers, etc., and the term will be so read for the remainder of this Office Action.

b) The term "disposed within markup" is not defined in the specification. It is the belief of the Examiner, based on a review of the claims and specification, that the Applicant intended the term to mean that the invention used a markup computer language, and the term will be so read for the remainder of this Office Action.

c) The term "validation shell function" is not defined in the specification. The term "shell," as used in the software arts, was known to one of ordinary skill in the art as "a program that interprets sequences of text input as commands." See, "IEEE 100, The Authoritative Dictionary of IEEE Standards Terms," Seventh Edition, IEEE Press, 2000, definition of "shell." Accordingly, based on a review of the claims and specification, the term "validation shell function" is read as a user interface to enter the data into the form, which is read as inherent in a form filling and validation program, and the phrase will be so read for the remainder of this Office Action.

d) The term "pattern validation routine" is not defined in the specification. Upon examination of the claims and the specification, it is the Examiner's belief that the

Applicant intended the term to be the comparison of input with valid input patterns within the validation routine, and will be so read for the remainder of this Office Action.

e) The term "pervasive device" is not defined in the specification. The Examiner consulted "IEEE 100, The Authoritative Dictionary of IEEE Standards Terms," Seventh Edition, IEEE Press, 2000, and "Microsoft Computer Dictionary," fifth edition, Microsoft Press, 2002, and the term was not found. The Examiner believes the term to have been intended by the Applicant to mean that the device is permanent, such as a permanent client device. See, Claim 15. See also, "American Heritage College Dictionary, fourth edition, Houghton Mifflin Co., 2002, definition of "pervasive." The term will be so defined for the remainder of this Office Action. It is noted that the term "pervasive" as applied to a client device, is read as non-functional descriptive language. It was known to one of ordinary skill in the art at the time of the invention that any device connected to a server as a client is permanent while connected to the server. Upon disconnection, the device is no longer a client device, it is merely a stand-alone device. Therefore, the term "pervasive" is read as non-functional descriptive language that does not constitute a patentable distinction over the prior art.

f) The term "validation script library" is defined in the specification by its use only, which is read by the Examiner, based on a review of the claims and specification, as a client side input validator, and will be so read for the remainder of this Office Action.

13. **Claims 1-15** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically with regards to the term "markup."

Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999).

The term "markup" in claims 1-15 is used by the claim to mean something other than a document containing tracked changes the can be viewed or printed, or markup language software or document, while the accepted meaning is either a document containing tracked changes the can be viewed or printed, or markup language software or document.

"Markup" is was known to one of ordinary skill in the art at the time of the invention to be defined as: "Comments and tracked changes such as insertions, deletions, and formatting changes that you can view of print. See, "Microsoft Computer Dictionary," fifth edition, Microsoft Press, 2002, definition of "markup." This definition is inapplicable within the context of the use of the term in the claims.

"Markup" was alternatively known to one of ordinary skill in the art at the time of the invention as: The collection of tags describing the specifications on an electronic document, as for formatting." See, "The American Heritage College Dictionary," fourth

edition, Houghton Mifflin, Co., 2002, definition of "markup." This definition is consistent with the Examiner's interpretation of the term "disposed in markup" as meaning use of a markup language, however, that interpretation was denied by Applicant. See, Remarks, page 8, noting that Applicant failed to state what the term was intended to mean.

Applicant rejected the Examiner's broadest reasonable interpretation of the term which were consistent with accepted meanings that were known to one of ordinary skill in the art at the time of the invention, and has failed to define the term in the specification or to clarify the term in responses to Office Actions. Therefore, the term "markup" is indefinite because the specification does not clearly redefine the term.

14. In the interest of compact prosecution, the application is further examined against the prior art, as stated below, upon the assumption that the applicants may overcome the above stated rejection under 35 U.S.C. 112, second paragraph.

Claims Rejections – 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Scholz, et al. (U.S. Patent Application Publication 2003/0078949, filed April 30, 2001 and published April 24, 2003) [hereinafter "Scholz"]. In general, it is noted that the claimed invention is generally a client-side validation program to check data entries to a form to ensure the data is of a correct type. In general, such form data validators were well known in the art at the time of the invention. Scholz teaches a client-side validator for data entry to a form. See generally, Scholz, paragraphs [0092]-[0175], teaching "Input Validation" to a form. Scholz does not use Applicant's terminology, but clearly teaches all functional elements specified by the Applicant.

Regarding **independent claim 1, as amended**, Scholz teaches:

A lightweight pattern validation system for a client device receiving markup defining a form, comprising:

a validation processor separate from said markup and configured with a prototype interface for receiving both a field validation pattern and also form based input to be validated against said field validation pattern; and,

a validation script library within said client device and packaging said validation processor, wherein

the form has at least one form based input field programmed for validation using said validation processor.

(It is noted that the term “prototype” is read as merely non-functional descriptive language describing the interface as a working model. See, The American Heritage College Dictionary, Fourth Edition, Houghton Mifflin, 2002, definition of “prototype.”

See, Scholz, paragraph [0014], teaching that the code is within a validation processor receiving input from the form. The processor, residing on the client, is separate from the code in the form that receives the data and makes function calls to the processor. The processor receiving the function calls is separate from the input of the data.

See generally, Scholz, paragraphs [0092]-[0175], teaching “Input Validation” to a form. Specifically, see, Scholz, paragraphs [0092]-[0013], teaching the overview of the validator.)

Regarding **dependent claim 2, as amended**, Scholz teaches:

The system of claim 1, further comprising:
a library reference to said script library disposed in said markup; and,
a function call to said validation processor further disposed in said markup, said function call having a configuration for passing a reference to a value in said at least one form based input field for validation in said validation processor.

(It is noted that based on a review of the claims and the specification, the limitation of a “library reference to said script library disposed within markup” is read as a system, including computer code, within a markup language wherein entry to a form is validated

Art Unit: 2176

by the processor, and will be so read for the remainder of this Office Action. Further, claim 2 is read as limiting the function call to validate as passing the value by reference, and will be so read for the remainder of this Office Action.

See, Scholz, paragraph [0109], teaching validation by reference to the validation code. And see, Scholz, paragraphs [0131]-[0132], teaching the custom tag library and the FormCollection object. See, Scholz, paragraph [0092], teaching the use of a markup language.)

Regarding **dependent claim 3**, Scholz teaches:

The system of claim 2, further comprising a plurality of additional function calls to said validation processor disposed in said markup, each additional one of said functional calls having a configuration for passing a reference to a value in a corresponding form based input field for validation in said validation processor.

(It is noted that the limitation of “a plurality of additional function calls to said validation processor disposed in said markup” is read by the Examiner as merely repeating the passing by reference validation claimed in dependent claim 3, and will be so read for the remainder of this Office Action.

See, Scholz, paragraph [0147], teaching multiple tags and, inherently, multiple function calls to those tags.)

Regarding **dependent claim 4**, Scholz teaches:

The system of claim 2, further comprising a validation shell function encapsulating said function call.

(See, Scholz, paragraph [0131], teaching the FormCollection library and functions calls contained therein.)

Regarding **dependent claim 5**, Scholz teaches:

The system of claim 3, further comprising a validation shell function encapsulating said function call.

(See, Scholz, paragraph 0131, teaching the tag library containing the FormCollection of function calls.)

Regarding **independent claim 6, as amended**, Scholz teaches:

A pattern validation method comprising the steps of:
retrieving a value for a form based input field from a form defined in markup rendered in a content browser;
passing said retrieved value along with a validation pattern for said form based input field to a validation process disposed within a lightweight validation library separate from and coupled to said rendered markup; and,
validating said retrieved value according to said validation pattern in said content browser.

Art Unit: 2176

(It is noted that the term "lightweight" is read as merely non-functional descriptive language and is not given weight as a patent limitation.

See, Scholz, paragraph [0116], teaching a "form processor" as a separate component or module.

See, Scholz, paragraphs [0092]-[0175], teaching retrieving input, passing the input value, and validating the retrieved value according to a valuation pattern within the content browser. Specifically, see Scholz, paragraph [0092] teaching the validation with a markup language, HTML and/or XML, in a client-side valuation.)

Regarding **dependent claim 7**, Scholz teaches:

The method of claim 6, further comprising the step of repeating said retrieving, passing and validating steps for at least one additional value for at least one additional form based input field disposed in said markup rendered in said content browser.

(It is noted that claim 7 is read by the Examiner as merely repeating the steps claimed in dependent claim 6, and will be so read for the remainder of this Office Action.

See, Scholz, paragraph [0147], teaching multiple tags and, inherently, multiple function calls to those tags.)

Regarding **dependent claim 8**, Scholz teaches:

The method of claim 6, further comprising the step of performing said retrieving, passing, and validating steps in a validation shell function disposed in said markup rendered in said content browser.

(See, Scholz, paragraph [0092] teaching the validation with a markup language, HTML and/or XML, in a client-side valuation.)

Regarding **dependent claim 9**, Scholz teaches:

The method of claim 7, further comprising the step of performing said retrieving, passing, validating and repeating steps in a validation shell function disposed in said markup rendered in said content browser.

(It is noted that the claim is read as merely repeating the interaction through the inherent interface to repeat the method steps specified in claim 7.

See, Scholz, paragraph [0092] teaching the validation with a markup language, HTML and/or XML, in a client-side valuation.)

Regarding **independent claim 10**, Scholz teaches:

*A pattern validation method comprising the steps of:
defining a pattern validation routine to validate form based input provided through a prototype interface to said routine based upon a validation pattern also provided through said prototype interface;*

packaging said pattern validation routine into a lightweight validation script library;

referencing said lightweight validation script library in markup disposed within a content server configured to distribute said markup to requesting clients;

defining at least one form based input field in said markup and further defining a validation pattern for each of said at least one form based input fields; and,

for each form based input field and defined validation pattern, disposing a function call to said pattern validation routine in said lightweight script library.

(See, Scholz, paragraphs [0092]-[0175], teaching retrieving input, passing the input value, and validating the retrieved value according to a valuation pattern within the content browser. Specifically, see Scholz, paragraph [0092] teaching the validation with a markup language, HTML and/or XML, in a client-side valuation.

See also, Scholz, paragraph 0116, teaching the separate validating component or module.

See also, Scholz, paragraph [0174], teaching that the code could alternatively be executed at a server.

See also, Scholz, paragraphs [0131]-[0132], teaching a custom tag library and FormCollection object, with function calls.)

Regarding **independent claim 11, as amended**, Scholz teaches:

A machine readable storage having stored thereon a computer program for pattern validation, the computer program comprising a routine set of instructions which when executed by the machine cause the machine to perform the steps of:

retrieving a value for a form based input field from a form defined in markup rendered in a content browser;

passing said retrieved value along with a validation pattern for said form based input field to a validation process disposed within a lightweight validation library separate from and coupled to said rendered markup; and,

validating said retrieved value according to said validation pattern in said content browser.

(Claim 11 incorporates substantially similar subject matter as claimed in claim 6, and, in further consideration of the following, is rejected along the same rationale. The Examiner takes official notice of the fact that that method steps that are performed by a computer are stored on computer or machine readable storage. It would have been obvious to one of ordinary skill in the art at the time of the invention to store the claimed method steps on computer readable storage for purposes of archiving, sale, transportation, etc.)

Regarding **dependent claim 12**, Scholz teaches:

The machine readable storage of claim 11, further comprising the step of repeating said retrieving, passing and validating steps for at least one additional value for at least one additional form based input field disposed in said markup rendered in said content browser.

(It is noted that the claim is read as merely repeating the method steps specified in claim 11.

Claim 12 incorporates substantially similar subject matter as claimed in claim 7, and is rejected along the same rationale.)

Regarding **dependent claim 13**, Scholz teaches:

The machine readable storage of claim 11, further comprising the step of performing said retrieving, passing, and validating steps in a validation shell function disposed in said markup rendered in said content browser.

(Claim 13 incorporates substantially similar subject matter as claimed in claim 8, and is rejected along the same rationale.)

Regarding **dependent claim 14**, Scholz teaches:

The machine readable storage of claim 12, further comprising the step of performing said retrieving, passing, validating and repeating steps in a validation shell function disposed in said markup rendered in said content browser.

(It is noted that the claim is read as merely repeating the method steps specified in claim 12.

Claim 14 incorporates substantially similar subject matter as claimed in claim 9, and is rejected along the same rationale.)

Regarding **dependent claim 15**, Scholz teaches:

The system of claim 1, wherein the client device is a pervasive device.

(Claim 15 incorporates substantially similar subject matter as claimed in claim 1 and, in further view of the following is rejected along the same rationale. It is noted that the term "pervasive device" is not defined in the specification. The Examiner consulted "IEEE 100, The Authoritative Dictionary of IEEE Standards Terms," Seventh Edition, IEEE Press, 2000, and "Microsoft Computer Dictionary," fifth edition, Microsoft Press, 2002, and the term was not found. The Examiner believes the term to have been intended by the Applicant to mean that the device is permanent, such as a permanent client device. See, Claim 15. See also, "American Heritage College Dictionary, fourth edition, Houghton Mifflin Co., 2002, definition of "pervasive." The term will be so defined for the remainder of this Office Action. It is noted that the term "pervasive" as applied to a client device, is read as non-functional descriptive language. It was known to one of ordinary skill in the art at the time of the invention that any device connected to a server as a client is permanent while connected to the server. Upon disconnection, the device is no longer a client device, it is merely a stand-alone device. Therefore, the

term "pervasive" is read as non-functional descriptive language that does not constitute a patentable distinction over the prior art.)

15. It is noted that any citations to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. See, MPEP 2123.

Response to Arguments

Applicants' arguments filed August 30, 2006 have been fully considered, but they are not persuasive.

Regarding rejections of claims 1-14:

Applicant argues that the Examiner in the Final Office Action, filed May 31, 2006, [hereinafter "Final Office Action"] "failed to clearly designate the teachings in Scholz being relied upon the statement of the rejection as required by 37 C.F.R. § 1.104(c)." Applicant presents no further argument, but only "incorporates herein all the prior arguments previously presented." See, Remarks, pages 6-7.

The Examiner disagrees.

The Examiner states that the grounds of rejection in the Final Office Action were clearly explained and adequate citations were made to the references in the rejections

and responses to arguments.

Regarding rejection of claim 1-14:

Applicant argues that the rejection and response to argument in the Final Office Action, failed to respond to Applicant's arguments. See, Remarks, pages 8-11.

It is noted that independent claims 1, 6, and 11 have been amended. Arguments whether the prior claims were responded to appropriately in prior actions are now moot.

Regarding rejections of claims 1 and 10:

FIRST: Applicant argues that the Examiner's interpretation of the term "validation script library" in the Final Office Action was in error. See, Remarks, pages 7-8. Specifically, Applicant argues that the interpretation of the terms as a "client side input validator" is without evidentiary basis.

The Examiner disagrees.

In the Final Office Action, the Examiner noted: "The term 'validation script library' is defined in the specification by its use only, which is read by the Examiner, based on a review of the claims and specification, as a client side input validator" See, Final Office Action, page 3, emphasis added.

The specification defines a "validation script library" in the following contexts:

a) "The system further can include a validation script library packaging the validation process." See, disclosure, paragraph [0008], emphasis added. This is the evidence that the term, in its broadest reasonable interpretation, was a "validator."

b) "Moreover, as the validation processor 150 can be packaged within a lightweight validation script library 140, there will be no need to cache a complete copy of a conventional script library thus permitting the lightweight validation script library 140 to remain resident in the client computing device 130 -- even where the resources of the client computing device 130 are limited." See, disclosure, paragraph [0019], emphasis added. This is the evidence that the term, in its broadest reasonable interpretation, was a "client side" device. See also, figure 1, showing the "lightweight validation script library" 140 residing on the client device 130.

c) See, figures 1-3, showing the validation process as part of the input. Particularly see, figure 3, element 330, as the step to "pass input data to validation shell." This is the evidence that the "validation script library received input.

Therefore, in its broadest reasonable interpretation, the term "validation script library" may reasonably be interpreted as a "client side input validator."

SECOND: Applicant further argues: "the term 'validation script library' implies that the validation script is located within a 'library'." See, Remarks, pages 7-8.

The Examiner disagrees.

The term "validation script library" implies that the validation script is a library, not that it resides within one. There is not support found in the original claims or specification that a "validation script" is separate from the "library."

THIRD: Applicant argues that the Examiner "improperly broadens the scope of the claimed term beyond the reasonable broadest interpretation of the term by one having ordinary skill in the art." Applicant further argues: "By analogy, the Examiner's

Art Unit: 2176

analysis would interpret the phrase 'a computer disposed within a library,' which happens to be within a building, to mean 'a computer is disposed within the building.'

See, Remarks, page 8, emphasis in the original.

The Examiner disagrees.

Claim 1 clearly recites: "*a validation script library within said client device and packaging said validation processor,*" which describes a validator residing in a client device.

Claim 6 clearly recites: "*passing said retrieved value along with a validation pattern for said form based input field to a validation process disposed within a lightweight validation library,*" which is the validation process within the validation library that receives input.

In response to Applicant's argument by analogy: The claim limitations are not to a computer in a library in a building, but rather to a validator within the computer. It is clearly stated in claims 1 and 6 that the validator is located within the client device, therefore the building analogy is unnecessary.

Regarding rejection of claim 2:

Applicant argues that the Examiner's interpretation of the term "disposed within markup" means that "the invention used a markup computer language" is in error. Applicant further argues that "the Examiner has improperly failed to recognize that the term 'dispose within markup' establishes a relationship between a library reference and markup such that 'a library reference ... [is] disposed within markup,' as recited in claim

2." See, Remarks, page 8.

The Examiner disagrees.

The term "disposed within markup" was not known to have a definition known to one of ordinary skill in the art at the time of the invention to the knowledge of the Examiner. The Examiner consulted "IEEE 100, The Authoritative Dictionary of IEEE Standards Terms," Seventh Edition, IEEE Press, 2000, and "Microsoft Computer Dictionary," fifth edition, Microsoft Press, 2002, and Newton, "Newton's Telecom Dictionary," 18th edition, CMP Books, 2002, and the phrase was not found. The term "disposed" was known by one of ordinary skill in the art at the time of the invention in its non-technical meaning as "to place or set in a particular order." See, "The American Heritage College Dictionary," fourth edition, Houghton Mifflin Co., 2002, definition of "dispose." In context, to place input data in a certain order, that order being in a markup language, is a reasonable interpretation of the phrase.

Upon examination of the context within which the term was used in the specification, there is no guidance.

In Applicant's discussion in the specification of the related art, the term "markup" is used within the definition known to one of ordinary skill in the art at the time of the invention, namely that of a markup language. As discussed in the specification, in context, the term was used as follows: "*Within the context of hypertext markup language (HTML) documents, it is well known to incorporate pattern validation within the interface.*" See, disclosure, paragraph [0005]. See also, paragraphs [0004]-[0007] also discussing other markup languages used in form validation. Significantly, nowhere in

Art Unit: 2176

the specification is the phrase "disposed within markup" defined or differentiated from a markup language.

Applicant states without reference or further explanation that the term "disposed within markup" establishes a relationship between a library reference and markup such that a library reference is disposed within markup. This is merely a circuitous statement without foundation in the specification. Finally, there is no definition or differentiation of "markup" found in Applicant's argument that would distinguish the term over the customary and ordinary usage of the term, known to one of ordinary skill in the art at the time of the invention, as identifying a markup language.

Therefore, in its broadest reasonable interpretation, the term "disposed within markup" is read as being written in a markup language.

Regarding rejection of claims 1, 6, 10, and 11:

Applicant argues that "Scholz fails to teach "the validation processor separate from said markup." Applicant further argues that Scholz teaches the opposite of the limitation of a processor separate from a markup. See, Remarks, pages 9-11.

The Examiner disagrees.

Initially, it is noted that the term "markup" is not defined in the specification, as noted in several rejections above. The broadest reasonable interpretation is that "markup" means some form of markup language.

Scholz clearly teaches that a validation processor may be separate from the form or its markup language expression. See, Scholz, paragraph [0014], teaching that the

code is within a validation processor receiving input from the form. The processor, residing on the client, is separate from the code in the form that receives the data and processed on the processor. The processor receiving the function calls to process the data is separate from the input of the data on the form.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael K. Botts whose telephone number is 571-272-5533. The examiner can normally be reached on Monday through Friday 8:00-4:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon can be reached on 571-272-4136. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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